



GO-SHIP Committee Meeting

14 February 2022 at 21 UTC

Draft agenda and Minutes

Participants:

Alison Macdonald, Greg Johnson, Kats Katsumata, Elaine McDonagh, Martin Kramp, Are Olsen, Masao Ishii, Emil Jeansson, Kumiko Azetsu-Scott, Mario Hoppema, Leticia Barbero, Yvonne Firing, Caroline Cusack, Steve Diggs, Maribel García Ibáñez, Lynne Talley

Apologies:

Mike Williams, Jae-Hak Lee, Fiz Perez, Pascale Lherminier

- National updates
 - Spain
 - Keeping previous cruise plan
 - SAGA cruise 2021 34.5°S to 11.5 S just began. PI Alonso Hernandez Guerra. Physical variables, oxygen and nuts.
 - BOCATS2023 is planned for June 2023 along A25-OVIDE line
 - Japan
 - Requesting funding for P14N in 2023 (Aug-Sep), P03W completed in 2021. P04W postponed/cancelled sine-die
 - Canada
 - AR7W (May), Davis (September) and ARC02 (summer)
 - Germany
 - Polarstern to leave 3 March: A12 partial section only and SR4 challenges due to departure from Cape Town and potential for COVID cases
 - Ireland
 - short-line in Southern Rockall Trough (24 April to 7 May 2022)
 - Korea
 - D Conducting the Indian Ocean cruise using the RV Isabu (60°/67°E, Dec 2021 to Jan 2022)
 - US
 - A13.5 cancelation and further planning. CS Denis Pierrot.
 - P02 (2 legs) upcoming in April: CSs Alison Macdonald and Andreas Thurnherr
 - 2023 plans: A16N, I05, I08S/I09N or P04E

US GO-SHIP for 2022/2023

- **NOAA A13.5** (https://www.aoml.noaa.gov/ocd/gcc/A13.5_2022/):
 - R/V Ron Brown, C.S. Denis Pierrot, Co-CS Zach Erickson (NOAA)
 - Ship was loaded in Cape Verde, ready to go, all personnel in semi-quarantine
 - Cruise was cancelled by NOAA due to lengthy delay for generator repairs
 - Future: NOAA considering timeline and other ships (L. Barbero report)
- **I05**: was scheduled for 2022 on the R/V Revelle:
 - Also cancelled for 2022 due to covid border closures and uncertainties
 - Top priority for 2023 ship planning in US (last occupation was 2009)
- **P02**: R/V Revelle, 2 legs, depart Guam April 22, 2022; - Honolulu – San Diego
 - Leg 1: C.S. Alison Macdonald, co-CS Shuwen Tan
 - Leg 2: C.S. Andreas Thurnherr, co-CS Natalie Freeman
- **2023 planning**:
 - **A16C, N**: NOAA Ron Brown (L. Barbero report)
 - **I05** top priority (Thompson or similar vessel)
 - **I08S/I09N** or **P04E** (cancellation of JAMSTEC P04W is a factor in decisions)

Bio-GO-SHIP:

- A13.5 had participation from Bio GO-SHIP scientists. NOAA support. Not at full level desired, but berths were made available,
- P02: additional 2 days for Bio GO-SHIP and there will be participation. Current logistical issue with loss of UVP along with the rosette/CTD on the current Revelle cruise north of Australia.
- Proposing **participation** on the following (need two berths):
 - I05 (we will need to request 2 more days, because I05 was part of the old STR)

GO-SHIP session at OSM2022: *To do*: put together spreadsheet of all GO-SHIP presentations

Ocean Observing Supplement to Oceanography Magazine

- Write a review article?
- Continued discussion from last year
- May 20, 2021: **LOI** sent to E. Kappel by Lynne. **Huge response** received from the GO-SHIP community to write the short article!
- Actual paper ended up being a short review of Argo and GO-SHIP: Roemmich et al., TOS, 2021.
- **Discussion**:
 - *should we write a longer review article, because of the great response received, and decide where to send it: Oceanography, Annual Reviews, Frontiers...?*
 - *At OSM: a side meeting to discuss the longer paper, results, authorship?*

TOPIC 1. OCEAN-CLIMATE NEXUS

The Technological, Scientific, and Sociological Revolution of Global Subsurface Ocean Observing

By Dean Roemmich, Lynne Talley, Nathalie Zibarro, Emily Osborne, Kenneth S. Johnson, Leticia Ballester, Henry C. Bitting, Nathan Briggs, Andrea J. Fawcenden, Gregory C. Johnson, Brian A. King, Elaine McDonagh, Sam Stephen Kline, Sohee Sung, Yoshio Taniuchi, Virginia Trenberth, and Susan Wijffels (lead author)

INTRODUCTION - GLOBAL OBSERVATIONS OF THE INTERIOR OCEAN

The complementary partnership of the Global Ocean Ship-based Hydrographic Investigations Program (GO-SHIP) and the Argo Program (<https://argo.jamstec.go.jp/>) has been instrumental in providing sustained subsurface observations of the global ocean for over two decades. Since the late twentieth century, new clues into the ocean's role in Earth's climate system have revealed a need for sustained global ocean observations (e.g., Coull et al., 2013; Schmitt, 2018) and stimulated revolutionary technology advances needed to address the societal mandate. Together,

- Potential contributions from China and Italy
 - Message from China, Dr. Honghai Zhang:

“Our plan is as follows:

We are moving forward with a plan of investigation in the Western Pacific from N41 to N13 along E150 transect (28 stations), and would take it as a fixed transect in the future.

At present, we had operating one cruise every year in this area from 2019, although not all stations are covered in the cruise ever year. However, now we plan to implement a full cruise every two to three years, according to the requirements of Level One data. Of course, we also determine some other parameters. The first full cruise is expected to take place in 2023.

Although this line does not meet the full requirements, e.g. coast-to-coast or coast-to-ice, however, these stations are entirely in uncontested open area, then the investigation will be carried out without diplomatic hindrance.”

Questions from Committee/protocoll (including data policies, best practices, full depth stations, etc.) to send to Dr Zhang, China rep would be beneficial for Committee. Action for Martin. Note partial overlap with P10

- Italy: Recently on A29 and Medship, national rep from Italy would be good on Committee
- CCHDO update 2020-2023
 1. The number of GO-SHIP stations per year are declining, partially due to COVID. This affects WOD, GLODAP and Argo (Ref DB), among others
 2. Less adherence to strictly reoccupying “WOCE” designated lines. Should the way that we classify these reoccupations be reconsidered?
 3. GOOS-OCG classifies GO-SHIP as non-compliant for standard metadata, and what metadata exist are hand-reported to OceanOps.
 4. Steve will send a link to all national representatives to report *very basic* information on upcoming and recently completed cruises. This will be the starting point for a 3-day discussion between the national representative, CCHDO and Martin.
- GOOS/OCG news: Recent Roundtable with focus on Decade
- Ocean Decade:
 - GO-SHIP project endorsed under GOOS Co-Design program
 - Invitation to write UN decade publication

“Dear Elaine,

We are reaching out to invite you and your colleagues to submit to an upcoming issue of the Marine Technology Society Journal focused on the U.N. Decade of Ocean Science for Sustainable Development. As the leader of an endorsed Decade Program, we hope you will consider this opportunity to share your plans with a broad audience. Given the action efforts are just getting

underway, we do not expect contributions to be in the form of a manuscript, but rather a commentary, a technical note (categories detailed below) or a 2 page spread similar to the OceanShot posters printed last year; we would need your draft contributions by March 15.

Categories of Submissions

1. Technical/Scientific Paper
2. Technical/Scientific Note
3. Commentary

Thanking you in advance for considering this opportunity.

Liesl Hotaling, MTS VP for Communications and Publications

Amy Morgante, MTSJ Editor

<https://www.mtsociety.org/mts-journal-submissions>”

- Euro-GO-SHIP

Elaine McDonagh is leading a consortium for a Horizons Europe research infrastructure to support European shipboard observations. The proposal will have three pillars, 1) shared facilities 2) data curation and 3) secondary quality control. The proposal is due 20th April 2022.

- Bio-GO-SHIP: A20/A22 included some Bio GO-SHIP sampling. The same was planned for A13.5, but the cruise was canceled. On P02 (April-July 2022), there will be flow-through samples taken approximately every 0.5° of longitude and there will be 2/1 days available on Leg 1/Leg 2 for Bio GO-SHIP DNA/RNA profile casts to 1000 m. This is the first time there will be Bio GO-SHIP only casts and first time that Bio GO-SHIP sampling has been included in an EEZ clearance request. Samples include microplankton, zooplankton and copepods. There will be a Bio GO-SHIP Town Hall at Ocean Sciences.
- Data Management Team; kick-off meeting in fall 2021; Kats and Karen agreed to co-chair and will move forward with ToRs, based on first draft from Elaine
- Working groups – ongoing
- Website and bibliography updates: Send new publications to Martin; Martin to put new content on website based on the meeting notes, including summary of GO-SHIP related OSM contributions
- AOB: Elaine will represent GO-SHIP at a Forum of the Monaco Ocean Week on 22 March, hosted by IHO, Argo, GO-SHIP and UN Ocean Decade GOOS Co-Design programme.